

## Patent Claims

1. Sound or ultrasound sensor for the transmission and/or reception of sound or ultrasound, comprising
  - a pot-shaped housing (1) closed below by a floor (3),
  - a piezoelectric element (5) for producing and/or receiving sound or ultrasound through the floor (3),
  - a matching layer (7) between the piezoelectric element (5) and the floor (3), and
  - a metal ring (9) gripping around the matching layer (7) and having an interlocking fit therewith.
2. Sound or ultrasound sensor as claimed in claim 1, wherein the matching layer (7) has a groove (11) extending annularly at, and around, its outer edge, on the floor-far side thereof.
3. Sound or ultrasound sensor as claimed in claim 2, wherein the groove has a depth (T), such that a coupling to the housing (1) is small.
4. Sound or ultrasound sensor as claimed in claim 1, wherein a damping material (13) is present in the housing (1).